

PRODUCT DATA SHEET

H10126

Werlatone® High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

Features:

High Power Wide Bandwidths Small Size Excellent Amplitude Balance

Electrical Specifications:

Frequency: 2000 - 6000 MHz
 Power: 100 W CW
 Insertion Loss: 0.8 dB Max.
 VSWR: 1.35:1 Max.
 Phase Balance: $180^\circ \pm 7^\circ$ Max.
 Amplitude Balance: ± 0.4 dB Max.
 Isolation: 20 dB Min.

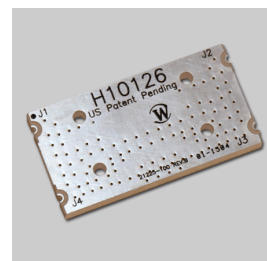
Mechanical Specifications:

Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant)
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Size: 1.15 x 0.6 x 0.14"

Port Configurations:

Model	J1	J2, J3	J4
H10126	Difference Port	Input Ports	Sum Port

Werlatone's standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.

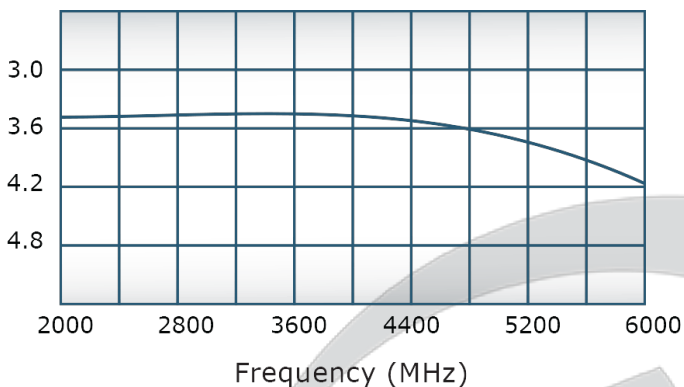


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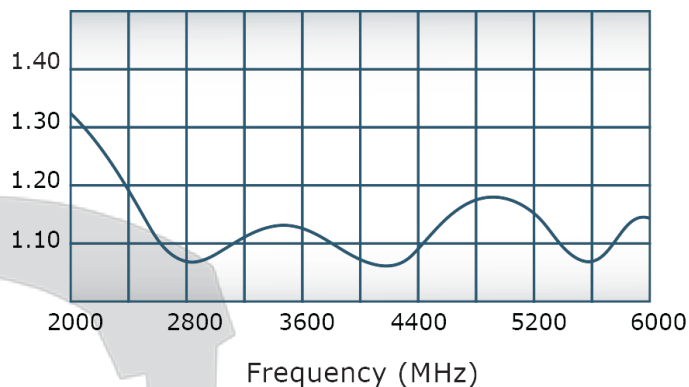
H10126

Performance Data (Specifications subject to change without notice):

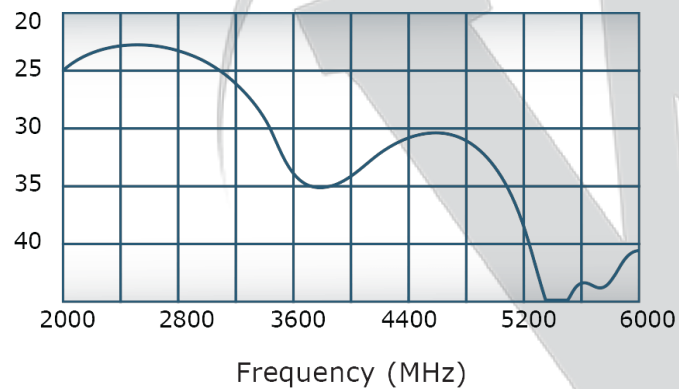
Coupling:



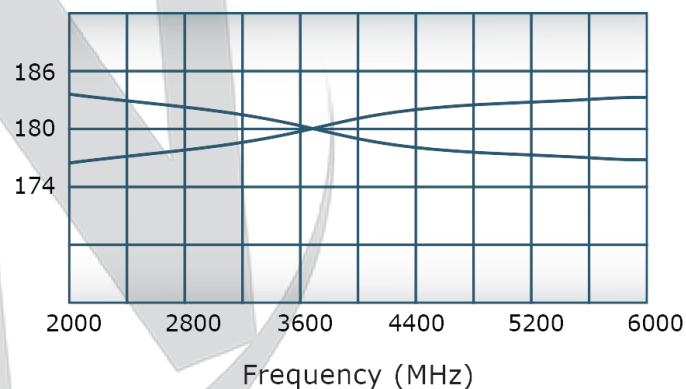
VSWR:



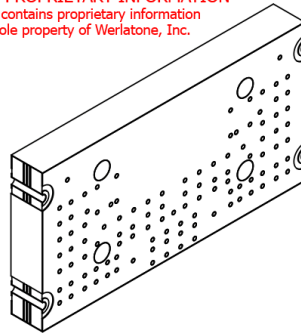
Isolation:



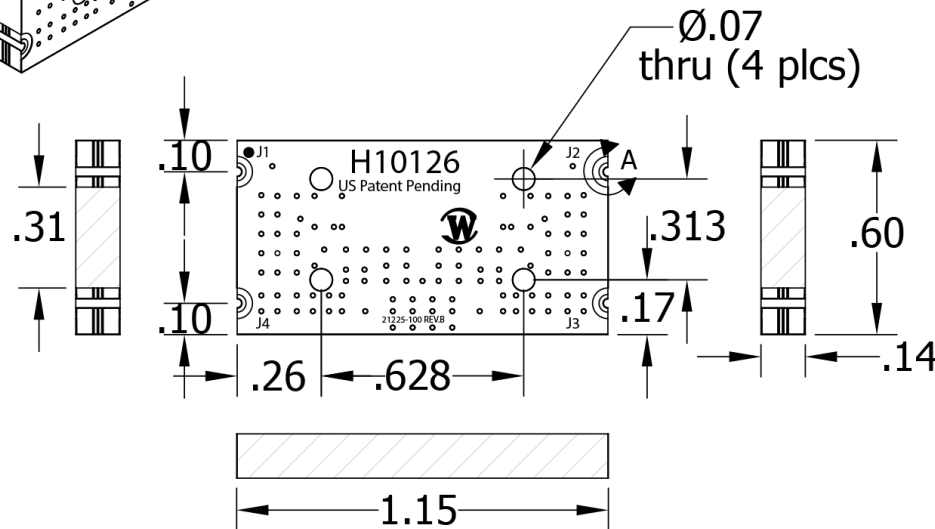
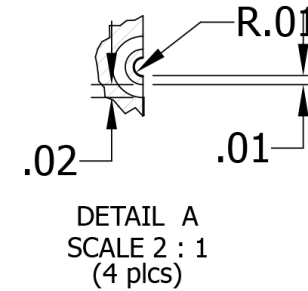
Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Initial Rls	10/22/2014	BW
A	ECN 9029	2/9/2016	BW



21225-100	H10126
NEXT ASSY	USED ON
APPLICATION	

- UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100
 - DIMENSIONING PER ASME Y14.5M-2009
 - PARENTHESES FOR REF ONLY
 - DIMENSIONS ARE IN INCHES
 - DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
 - TOLERANCES: ANGLES ± 2°
3 PL ± .005
2 PL ± .015

THIRD ANGLE PROJECTION

DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563			
NH	10/22/14						
CHK	DATE						
BW	10/22/14						
ENGR	DATE						
NH	10/22/14						
MFGR	DATE						
QA	DATE	SIZE	CAGE CODE	DWG NO	REV		
RLSE	DATE	A	28812	21225-500	A		
		SCALE			SHEET 1 OF 1		
		2:1					

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